SYLVANIA

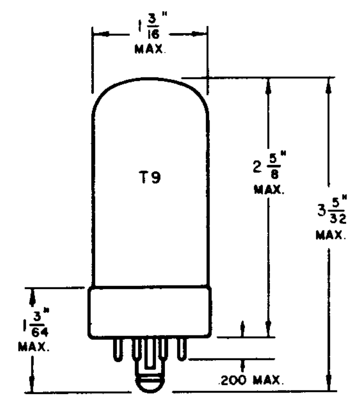
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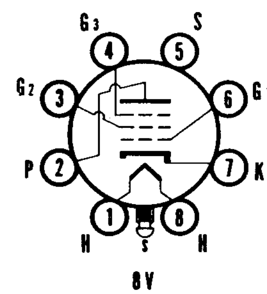
SYLVANIA

6145

QUICK REFERENCE DATA

Lock-in, sharp cutoff pentode amplifier designed for service in electronic computers.





MECHANICAL DATA

Bulb	T-9
Base	D8-1, Lock-in 8-Pin
Basing	8V
Cathode	Coated Unipotential
Mounting Position	Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage	6.3 Volts
Heater Current	600 Ma

DIRECT INTERELECTRODE CAPACITANCES (Shielded)[1]

Control Grid to Plate (Max.)	.060 $\mu\mu$f
Control Grid Input	14 $\mu\mu$f
Output	7.5 $\mu\mu$f

RATINGS (Design Center Values)

Plate Voltage	300 Volts Max.
Plate Dissipation	10 Watts Max
Screen Grid Supply Voltage	300 Volts Max.
Screen Grid Voltage	See JETEC J5-C4
Screen Dissipation	2.5 Watts Max.
Positive Control Grid Voltage	0 Volts Max.
Heater-Cathode Voltage	±200 Volts Max.

CHARACTERISTICS

Conditions

Plate Voltage	60	150 Volts
Suppressor Grid Voltage[2]	0	0 Volts
Screen Grid Voltage	100	100 Volts
Control Grid Voltage	0	0 Volts
Plate Current		34 Ma
Screen Grid Current 12 Ma Max.		8 Ma
Transconductance[2]		9,700 μmhos
Plate Resistance		0.1 Megohm
Control Grid Voltage for I_b=2.0 Ma Max.		-5.3 Volts

TYPICAL OPERATION

Pulse Amplifier

Plate Voltage	150 Volts
Suppressor Grid Voltage[3]	0 Volts
Screen Grid Voltage	250 Volts
Control Grid Voltage	-10 Volts
Peak Positive Pulse Voltage[4]	16 Volts
Peak Plate Current, Minimum	120 Ma

NOTES:

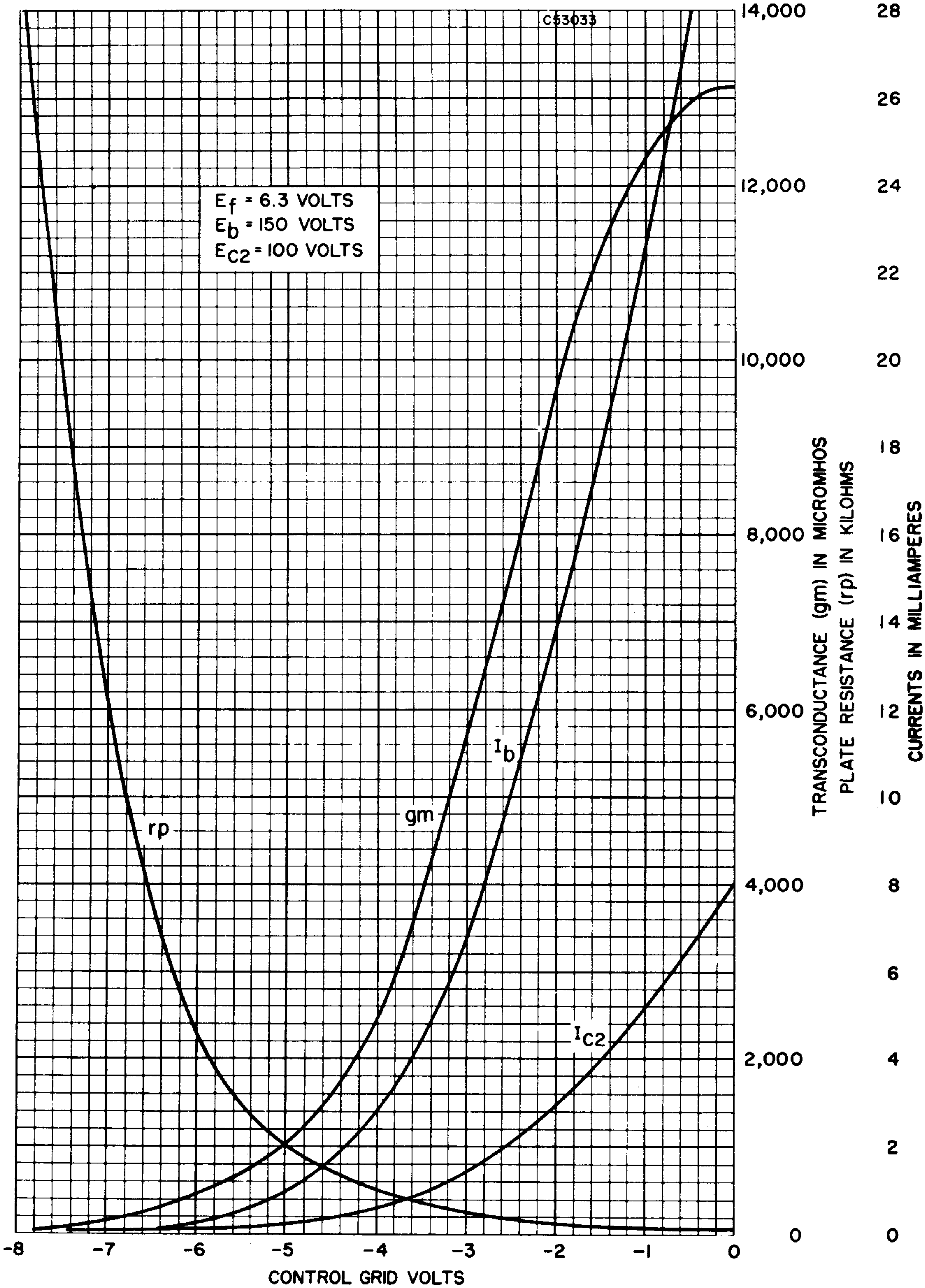
1. *External shield No. 308 connected to cathode.*
2. *At fixed bias of -2 volts.*
3. *Suppressor grid connected to cathode at socket.*
4. *Rectangular pulse, 2 microseconds duration, 60 cps repetition rate.*

SYLVANIA ELECTRIC PRODUCTS INC.

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EMPORIUM, PENNSYLVANIA

JULY 1953

AVERAGE TRANSFER CHARACTERISTICS



AVERAGE PLATE CHARACTERISTICS

